



OAR
quarterly index of current
RESEARCH RESULTS

1 January - 31 March 1964

OFFICE of AEROSPACE RESEARCH
United States Air Force



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**OAR Quarterly Index of
CURRENT RESEARCH RESULTS**

• 1 January - 31 March 1964

**OFFICE OF AEROSPACE RESEARCH
UNITED STATES AIR FORCE
WASHINGTON, D. C.**

FOREWORD

The primary mission of the Office of Aerospace Research is to plan and manage the Air Force research program. This includes the areas of Physical Sciences, Environmental Sciences, Mathematical Sciences, Psychological and Social Sciences, and Biological and Medical Sciences. In addition, we carry out exploratory development for the Air Force Systems Command in the areas of Environment and Aerospace Environment. Finally, we conduct research in fields where we have special competence for the Air Force Systems Command and the Advanced Research Projects Agency, work on specific projects for the Defense Atomic Support Agency, and cooperate with the National Aeronautics and Space Administration on tasks of mutual interest.



We are aware of the urgent need to expedite the exchange of scientific and technical information within the DoD and between DoD elements and the scientific community. Personal contact has long been one of the best media for such interchange. In certain cases, this is all that is needed. But in other cases, in view of the rapidly increasing quantity of information, personal contact is not enough to meet the requirements for effective communication.

Recently, we published the OAR Cumulative Index of Research Results, 1959-1962 as a means for accelerating the interchange of scientific and technical information between scientist and scientist, and between the researcher and the user. We have received many favorable comments on it. We are also currently publishing the OAR Cumulative Index of Research Results, 1963. This first Quarterly Index for 1964 (which will be a recurring publication) continues the tradition of making available to all who can use them the results of OAR research efforts. We hope that you will find it just as useful.

A handwritten signature in dark ink, reading "Don R. Ostrander". The signature is written in a cursive, flowing style.

DON R. OSTRANDER
Major General, USAF
Commander
Office of Aerospace Research

INTRODUCTION

The OAR Quarterly Index of Current Research Results is designed:

- to identify all technical reports produced and published by the various organizations within the Office of Aerospace Research during the quarter indicated.
- to provide a record of the results of research conducted and sponsored by each OAR organization.
- to furnish a ready reference for the identification of technical reports produced by particular authors or contractors, or under certain contracts, grants or projects.

Every effort has been made to include all research results published during this quarterly reporting period (both in-house and contractor technical reports and journal articles) as well as other research products which are not technical reports per se but have resulted wholly or in part from OAR support (translations, monographs, symposia proceedings, state-of-the-art studies, reviews and textbooks). In some sections, there will be omissions in the numerically listed report numbers. This is due to the nonutilization of numbers previously assigned to a division or laboratory. Occasionally, also, a particular report was assigned a number but, for one reason or another, the report was not published. Every effort has been made, however, to include all reports published during this quarterly reporting period.

The OAR Quarterly Index of Current Research Results is divided into several parts beginning with a bibliography of the reports published during the reporting period. This bibliography is organized into sections by monitoring organizations. Within each section, the technical reports are arranged alphanumerically according to the report number assigned by each organization. Each bibliographic entry includes the following information (if available and applicable): the report number; corporate author; title and date; security classification of the report (if classified); the name(s) of the author(s); the Defense Documentation Center (DDC) accession number; the instrument (contract or grant) number; and the project and task numbers. Several indexes follow the bibliography and are keyed to it by the report numbers. These are: an author index; a corporate-author index; an instrument-number index; a project/task-number index; and a KWIC (Keyword-In-Context) index of the report titles.

Any questions concerning this publication, or suggestions for improving subsequent indexes of research results, should be directed to the Office of Scientific and Technical Information (RRYC), Hq Office of Aerospace Research, USAF, 4th and Independence Ave., S.W., Washington, D.C. 20333.

TITLES OF PROJECTS

THE FOLLOWING ARE THE TITLES OF THE PROJECTS FOR WHICH REPORTS WERE PROCESSED DURING THIS REPORTING PERIOD.

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6603	ELECTROMAGNETIC PROPAGATIONS	7679	ATMOSPHERE RESEARCH INSTRUMENTATION
6606	SOLID STATE DEVICES PHYSICS	7681	AERIAL PHYSICS
6610	COMMUNICATIONS	7683	IONOSPHERIC CHARACTERISTICS
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6901	INFRARED-OPTIC RANGE RESEARCH	8404	METEOROLOGICAL RESEARCH
7101	SYSTEMS EFFECTIVENESS ANALYSIS	8405	RESEARCH ON PHYSICS OF IONOSPHERIC REGIONS
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6680	AEROSPACE RADIATION ENVIRONMENT	9710	INORGANIC CHEMISTRY, ANALYTICAL CHEMISTRY AND NEW TECHNIQUES
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6684	ENERGY CONVERSION RESEARCH	9719	RESEARCH IN MATHEMATICAL SCIENCES
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BY SCHLESINGER S P
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BY DITRICH R H
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RY PARK N G III
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L G HANSCOM FIELD MASS
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A PULSED HYPERSONIC TECHNIQUE AND SOME ATTENUATION
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DDC NUMBER 429179
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RY INGERRIGTSSEN K A
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DDC NUMBER 429159
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RY WAIT J R
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AFRL 63 576
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MAGNETIC RELAXATION IN RARE EARTH SALTS, 20 SEP 1963.
BY COOKE A H
DAINTREE E J
INSTRUMENT AF 61<052>00677
PROJ/TASK 5621 04

AFRL 63 578
LAB DE PHYSIQUE PARIS FRANCE
RADIATION DAMAGE IN SEMICONDUCTORS. I. RADIATION ENHANCED
DIFFUSION IN SILICON. II. STORED ENERGY IN IRRADIATED
SEMICONDUCTORS. III. DEFECT MOBILITY IN IRRADIATED
SEMICONDUCTORS, 23 JUL 1963.
RY PARICH P
INSTRUMENT AF 61<052>00543
PROJ/TASK 5620 02

AFRL 63 579
SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF
SEQUENCES IN CONTEXT FREE LANGUAGES, 13 NOV 1963.
RY GINSBURG S
HIRSHARD T N
ULLMAN J S
INSTRUMENT AF 19<628>00485
PROJ/TASK 464146410

AFRL 63 580
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y
ON RESONANCES IN THE SMITH-PURCELL EFFECT, 2 DEC 1963.
RY HFSSEL A
INSTRUMENT AF 19<604>07499
PROJ/TASK 4600 04

AFRL 63 583
NATIONAL BUREAU OF STANDARDS BOULDER COLO
THEORETICAL CALCULATIONS OF THE IMPEDANCE OF A MONOPOLE
ANTENNA WITH A RADIAL-WIRE GROUND SYSTEM ON AN
IMPERFECTLY CONDUCTING HALF-SPACE, 13 DEC 1963.
RY MALEY S W
KING R J
BRANCH L R
DDC NUMBER 428156
INSTRUMENT PRO-62-201
PROJ/TASK 4600 04

AFRL 63 585
CHU ASSOC LITTLETON MASS
MULTIPLE PLATE ANTENNA ANALYSIS, 10 DEC 1963.
RY GLASSER R
LAGACE R L
MONTVILLE W
INSTRUMENT AF 19<628>00297
PROJ/TASK 4600 07

AFRL 63 586
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB
L G HANSCOM FIELD MASS
ON THE STABILITY ANALYSIS OF A TWO-WAY CONTROLLED
CARRIER TRANSMISSION SYSTEM, DEC 1963.
RY BERSHAD N J
DDC NUMBER 428435
PROJ/TASK 5628 01

AFRL 63 587
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS
THE FERROUS-FERRIC DOSIMETER - A REVIEW, DEC 1963.
RY BURKE F A
DDC NUMBER 429156
PROJ/TASK 4608 01

AFRL 63 588
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS
THE "DOUBLE HELIX" ANTENNA AND ITS VARIANTS - A NEW
CLASS OF TUNABLE END-FIRE ANTENNAS, DEC 1963.
RY FRENHSPFCK H W
PROJ/TASK 4600 04

AFRL 63 590
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS
USE OF FAILURE STATISTICS IN DESIGN, DEC 1963.
RY BISHOP W R
PROJ/TASK 4608 07

AFRL 63 591
LEXINGTON LABS INC CAMBRIDGE MASS
INVESTIGATION OF HIGH TEMPERATURE THERMAL EXPANSION
DEVICES AND DESIGN OF A UNIT FOR USE WITH THERMAL IMAGE
HEATING, 15 DEC 1963.
RY FOLWELLER R C
SCHAFFER P S
DDC NUMBER 429180
INSTRUMENT AF 19<628>01616
PROJ/TASK 5634 04

AFRL 63 592
CASE INST OF TECH CLEVELAND OHIO
MULTI-PORT VOLTAGE TRANSFER FUNCTION, OCT 1963.
RY ZEREN T
INSTRUMENT AF 19<628>01699
PROJ/TASK 5635 02

APCRL 63 793
POLYTECHNIC INST OF BROOKLYN FR EIGHT N Y
PARALLEL PLATE SIMULATOR FOR A PLASMA SLAB, 6 MAY 1963.
BY SCHLAFER J D
INSTRUMENT AF 19(604)07216
PROJ/TASK 661946191

APCRL 63 794
NEW MEXICO STATE U UNIVERSITY PARK
FLUSH AND NONFLUSH MOUNTED TELEMETRY ANTENNA, FLUSH
MOUNTED COMMAND CONTROL ANTENNAS, S-BAND AND C-BAND
BEACON TRANSDUCER ANTENNAS, ANTENNA SYSTEMS FOR SPECIFIC
MISSILES, PROBES AND SATELLITES, 15 OCT 1963.
BY WITKIN M O
MAAS H B
INSTRUMENT AF 19(604)06198
PROJ/TASK 7659 01

APCRL 63 841
NORTHEASTERN U BOSTON MASS
ON THE POSSIBILITY OF PRODUCING ARTIFICIAL AURORAS, 28
JUN 1963.
BY LANZA G
INSTRUMENT AF 19(604)07358
PROJ/TASK 66946940

APCRL 63 841
GEOPHYSICS CORP OF AMERICA WENDELL MASS
TEMPERATURE DETERMINATION METHOD FOR PLANETARY
ATMOSPHERES, JUN 1963.
BY WINNER R A
SAUERMAN G
PETERSON L R
DOC NUMBER 427618
INSTRUMENT AF 19(628)01633
PROJ/TASK 767376731

APCRL 63 843
TEMPLE U PHILADELPHIA PA
RESEARCH DIRECTED TOWARD THE DESIGN, CONSTRUCTION AND
ANALYSIS OF EXPENDITURES FOR DETERMINING INFLUX RATE OF
METEORITIC PARTICLES IN THE EARTH-S ATMOSPHERE, 15 JUN
1963.
BY BOHN J L
FUCHS O P
SHERWOOD F J
INSTRUMENT AF 19(604)05870
PROJ/TASK 766776046

APCRL 63 897
PHYSICAL STUDIES INC CENTERVILLE OHIO
PROTON AND ELECTRON SCATTERING BY DIATOMIC MOLECULES,
1 APR 1963.
BY BREWER R G JR
INSTRUMENT AF 19(628)00476
PROJ/TASK 865886580

APCRL 63 704
LOCKHEED AIRCRAFT CORP BURBANK CALIF
ASTRODYNAMIC CONSTANTS ANALYSIS, 31 JUL 1963.
BY FRANCIS M P
HARRISON M W
HERRICK A
INSTRUMENT AF 19(628)01619
PROJ/TASK 7600 06

APCRL 63 706
TECHNICAL OPERATIONS INC BURLINGTON MASS
EFFECTS OF CLOUDS AND MOIST LAYER ROUGHNESS ON RANGE
RATE ERRORS OF RADIO INTERFEROMETER TRACKING AND
GUIDANCE SYSTEMS, 31 JUL 1963.
BY CUNNINGHAM R H
VICKERS W W
PATRICK C G
INSTRUMENT AF 19(604)06641
PROJ/TASK 5930 07

APCRL 63 710
HAWAII U HONOLULU
AN EVALUATION OF THE POTSDAM DATUM, SEP 1963.
BY WOOLLIAD G P
INSTRUMENT AF 19(628)02849
PROJ/TASK 7600 02

APCRL 63 712
THERMO-ELECTRON ENGINEERING CORP WALTHAM MASS
EFFECT OF ELECTRODE CONFIGURATION ON THERMIONIC CONVERTER
OUTPUT CHARACTERISTICS, MAR 1962 - MAR 1963.
BY RASOR N S
KITTELAKIS S S
INSTRUMENT AF 19(604)08453
PROJ/TASK 6694 09

APCRL 63 719
RHODES ISLAND U KINGSTON
THE THEORY OF SURFACE WAVE DIFFRACTION BY SYMMETRIC
CRUSTAL DISCONTINUITIES, NOV 1963.
BY KANE J
SPENCE J
DOC NUMBER 427136
INSTRUMENT AF 19(628)00319
PROJ/TASK 8652 03

APCRL 63 725
PICKARD AND BURNS INC WALTHAM MASS
EXTENSION OF RADIO WAVE REFLECTION STUDIES (II), 25 SEP
1963, SECRETS.
BY WILLIAMS J C
INSTRUMENT AF 19(628)01623
PROJ/TASK 6649 01

APCRL 63 728
WASHINGTON U ST LOUIS MO
SECONDARY ELECTRON EMISSION FROM SPECIALLY PREPARED
TARGETS, 31 JAN 1963.
BY BROWN J
INSTRUMENT AF 19(604)08435
PROJ/TASK 6692 01

APCRL 63 736
INST GEOFISICA DEL PERU MARIKAYO
MEASUREMENTS FOR THE NIGHT SKY RADIATIONS AT THE MAGNETIC
EQUATOR, MARIKAYO, PERU, OCT 1963.
BY CASAVARDE M
GIESSECK A
INSTRUMENT AF 19(604)07213
PROJ/TASK 862786274

APCRL 63 739
STEVENS INST OF TECH HOBOKEN N J
OPERATION OF A COAXIAL PLASMA ACCELERATOR, OCT 1963.
BY RANIVILL J F
ROSTICK W H
INSTRUMENT AF 19(604)04086
PROJ/TASK 8608 01

APCRL 63 740
WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS
LONG LINE AZIMUTH DETERMINATION FROM RANGE AND OPTICAL
MEASUREMENTS, MAY 1963.
BY KAMPE M B
MORONEY R H
NIRON W T
INSTRUMENT AF 19(628)02379
PROJ/TASK 7600 01

APCRL 63 741
WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS
MULTI-ANGULATION, MULTI-LAYERATION PROGRAMMING REPORT,
SEP 1963.
BY MORONEY R H
MOSEY I W
NIRON W T
INSTRUMENT AF 19(628)02379
PROJ/TASK 7600 01

APCRL 63 749
AF CAR AIR FORCE CAMBRIDGE RESEARCH LABS
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS
DIRECT RECORDING OF INTEGRATED BAND INTENSITIES FROM A
LINEAR WAVELENGTH SPECTROMETER, OCT 1963.
APPL OPT 2 6 611 JUN 1963
BY SCHURIN R
WILLIAMSON D F
CLIMAN S A
PROJ/TASK 8603 04

APCRL 63 750
RAYTHEON CO NORWOOD MASS
MULTIVALUED SIGNATURES OBSERVED AT VERTICAL INCIDENCE (U),
OCT 1963, SECRETS.
BY THOMP G
DOC NUMBER 366634
INSTRUMENT AF 19(628)02373
PROJ/TASK 4649 01

APCRL 63 753
UTAH U SALT LAKE CITY
RADIATION HARDENING THE STANDING WAVE IMPEDANCE PROBE,
16 OCT 1963.
BY MOULETT L C
EVANS J P
BAKER E D
DOC NUMBER 429174
INSTRUMENT AF 19(628)00447
PROJ/TASK 8653 02

APCRL 63 762
HARVARD U CAMBRIDGE MASS
THE SUN'S MAGNETIC FIELD AND THE STABILITY OF SOLAR
WINDINGS, NOV 1963.
BY MARZEL D H
MORISON G
DOC NUMBER 427381
INSTRUMENT AF 19(604)04962
PROJ/TASK 7649 01

APCRL 63 763
MASSACHUSETTS INST OF TECH CAMBRIDGE
INDIRECT MEASUREMENT OF THE MEAN MERIDIONAL CIRCULATION IN
THE SOUTHERN HEMISPHERE, 1 NOV 1963.
BY GILMAN P A
INSTRUMENT AF 19(628)02408
PROJ/TASK 8628 02

APCRL 63 764
STEVENS INST OF TECH HOBOKEN N J
STUDY OF THE STABILITY OF HYDROMAGNETIC PLASMAS, NOV 1963.
BY ROSTICK W H
INSTRUMENT AF 19(604)04086
PROJ/TASK 8608 02

APCRL 63 766
AFNDIC CORP BALTIMORE MD
METEOROLOGICAL TRACKING RADAR STUDY, 31 OCT 1963.
BY METRICH G R
INSTRUMENT AF 19(628)02449
PROJ/TASK 6670 02

APCRL 63 772
DARTMOUTH COLL HANOVER N H
STUDIES OF WHISTLERS AND AUDIO-FREQUENCY EMISSIONS, 19
AUG 1963.
THE PROJ 67 2 FEB 1964
BY MORGAN M C
INSTRUMENT AF 19(604)07045
PROJ/TASK 8653 02

APCRL 63 774
MIAMI U CORAL GABLES FLA
COOPERATIVE EFFECTS AND PLASMA LOSSES IN A MAGNETIC FIELD,
1 MAR 1962 TO 28 FEB 1963.
BY KIRKUNGLI B
INSTRUMENT AF 19(604)08082
PROJ/TASK 6694 09

APCRL 63 776
HAWAII U HONOLULU
TRANS OBSERVATIONS OF THE SUMMER CIRCULATION AND WEATHER
PATTERNS OF THE EASTERN NORTH PACIFIC, OCT 1963.
BY SADLER J C
INSTRUMENT AF 19(604)06196
PROJ/TASK 6698 02

APCRL 63 777
COLUMBIA U NEW YORK N Y
SURFACE WAVE RADIATION PATTERNS FOR UNDERGROUND NUCLEAR
EXPLOSIONS AND SMALL-MAGNITUDE EARTHQUAKES, SEP 1963.
J GEOPHYS RES 68 17 SEP 1963
BY BRINE J N
POMEROV P W
INSTRUMENT AF 19(604)07376
PROJ/TASK 8652 03

APCRL 63 778
OKLAHOMA STATE U STILLWATER
A COMBINATION TELEMETRY-TRAJECTORY SYSTEM, AUG 1963.
BY RICE B F
INSTRUMENT AF 19(604)06648
PROJ/TASK 7659 03

AFRL 63 781
OHIO STATE U RESEARCH FOUNDATION COLUMBUS
THE 27-28 EMISSION BANDS OF CN, OCT 1963.
BY SLOOF H J JR
DDC NUMBER 428102
INSTRUMENT AF 196604>06150
PROJ/TASK 7670 02

AFRL 63 782
MCDONNELL AIRCRAFT CORP ST LOUIS MO
INVESTIGATION OF MAGNETOHYDRODYNAMIC WAVES, VOL. I -
SUMMARY, VOL. II - THEORY, VOL. III - EXPERIMENTS, 30 NOV
1963.
BY JOERGE C D
DDC NUMBER 429152
DDC NUMBER 429153
DDC NUMBER 429154
INSTRUMENT AF 196620>0239
PROJ/TASK 4691

AFRL 63 783
MCGILL U MONTREAL P Q CANADA
ALBERTA HALL STUDIES, 1962-1963.
BY CARTER A F
WILLIAMS G N
DUGLAS R W
SRIVASTAVA R C
HITSCHFIELD W
DDC NUMBER 427034
INSTRUMENT AF 196620>00249
PROJ/TASK 8620 04

AFRL 63 784
STANFORD RESEARCH INST MENLO PARK CALIF
ON A POINTWISE VARIATIONAL PRINCIPLE OF ELASTICITY AND
MATHEMATICAL PHYSICS, 19 AUG 1963.
BY STALLYBRASS M D
INSTRUMENT AF 196620>00323
PROJ/TASK 763976392

AFRL 63 785
STANFORD RESEARCH INST MENLO PARK CALIF
AN ANALYTICAL INVESTIGATION OF CERTAIN MIXED BOUNDARY
VALUE PROBLEMS WITH A CIRCULAR LINE OF SEPARATION IN THE
BOUNDARY CONDITIONS, 28 AUG 1963.
BY STALLYBRASS M D
DDC NUMBER 428785
INSTRUMENT AF 196620>00323
PROJ/TASK 763976392

AFRL 63 788
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS
INTERFERENCE PROPERTIES OF PHOTONS, NOV 1963.
BY ROSS D W
DDC NUMBER 426667
PROJ/TASK 4445 02

AFRL 63 789
BROWN D ASSOC INC FAW GALLIE FLA <SUBCONTRACT TO -
INSTRUMENT CORP OF FLORIDA MELBOURNE>
STUDY OF THE FEASIBILITY OF ROCKET AND SATELLITE
APPROACHES TO THE CALIBRATION OF TRACKING SYSTEMS, 23 OCT
1963.
BY BROWN D C
BUSH N
STROUD J L
INSTRUMENT AF 196604>00493
PROJ/TASK 5910 01

AFRL 63 791
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB
L G HANSCOM FIELD MASS
VOL. I, THE OCEAN FREEZE AND DRY GULCH DIFFUSION PROGRAMS,
NOV 1963, VOL. II, DEC 1963.
BY HAUGEN D A
FLOQUAY J J
TAYLOR J H
DDC NUMBER 428416
DDC NUMBER 427687

AFRL 63 793
TEXAS INSTRUMENTS INC DALLAS
TERRAIN QUANTIFICATION, PHASE II - PLAYS AND MISCELLANEOUS
STUDIES, 6 OCT 1963.
BY CARR D D
BECKER R F
VAN LOPEL J R
DDC NUMBER 429444
INSTRUMENT AF 196620>02786
PROJ/TASK 7628 05

AFRL 63 794
AEROSPACE RESEARCH INC BOSTON MASS
COSMIC NOISE ABSORPTION DATA COLLECTION <US>, NOV 1963.
SECRET
BY GOLDMAN S C
INSTRUMENT AF 196620>00432
PROJ/TASK 8653

AFRL 63 795
STANFORD U CAL
RADAR DETECTION OF IONIZED NITRIC OXIDE IN THE LOWER
IONOSPHERE, OCT 1963.
BY COLIN L
INSTRUMENT AF 196620>00215
PROJ/TASK 8453

AFRL 63 796
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS
SOLAR FLUX MEASUREMENTS AT 915 MC DURING PARTIAL ECLIPSE
OF 20 JULY 1963, OCT 1963.
BY MINER R J
DDC NUMBER 426686
PROJ/TASK 4403 02

AFRL 63 797
ST LOUIS U MO
THE DIRECTION OF MOTION AT EARTHQUAKE FOCI, 31 JUL 1963.
BY STAUDLER W
INSTRUMENT AF 196604>00054
PROJ/TASK 8652 01

AFRL 63 798
STANFORD U CAL
ON THE DETERMINATION OF TEMPERATURE AND IONIC COMPOSITION
BY ELECTRON RAY SCATTERING FROM THE IONOSPHERE AND
MAGNETOSPHERE, OCT 1963.
BY MOOREHEAD D S
DDC NUMBER 428954
INSTRUMENT AF 196604>07436
PROJ/TASK 5629 01

AFRL 63 799
HARVARD U CAMBRIDGE MASS
GENERATION OF RADIO WAVES AND ACCELERATION OF PARTICLES
BY THE CLASS 3 SOLAR FLARE OF 1961, DEC 1963.
PLANETARY SPACE SCI 11 897-900 1963
BY MAXWELL A
INSTRUMENT AF 196620>02370
PROJ/TASK 7649 04

AFRL 63 810
PENNSYLVANIA STATE U UNIVERSITY PARK
DETERMINATION OF STRESS FROM WIND AND TEMPERATURE
MEASUREMENTS, 31 JAN 1963.
QUART J ROY METEOROL SOC 89 170 JAN 1963
BY PANOFSEY M A
INSTRUMENT AF 196604>06641
PROJ/TASK 862886281

AFRL 63 816
PENNSYLVANIA STATE U UNIVERSITY PARK
MODEL EXPERIMENTS ON REFRACTION ARRIVALS FROM A LINEAR
TRANSITION LAYER, FEB 1964.
BULL SEISMOL SOC AM 54 1 1-8 FEB 1964
BY NAKAMURA Y
INSTRUMENT AF 196620>00230
PROJ/TASK 8652 08

AFRL 63 827
GENERAL DYNAMICS CORP AERONAUTICS SAN DIEGO CALIF
MISSILE RADIATION IN THE LAUNCH PHASE <US>, 30 APR 1963.
SECRET.
INSTRUMENT AF 196604>05554
PROJ/TASK 4784

AFRL 63 828
RADIO CORP OF AMERICA BURLINGTON MASS
PLUM MEASUREMENTS <US>, 18 FEB 1963, SECRET.
BY RAPLAN A J
INSTRUMENT AF 196604>06624
PROJ/TASK 490449050

AFRL 63 841
MARYLAND U COLLEGE PARK
SPECTROSCOPIC MEASUREMENTS ON MAGNETICALLY COMPRESSED HIGH
TEMPERATURE PLASMAS, JUL 1963.
BY GERTEL G R W
INSTRUMENT AF 196620>00269
PROJ/TASK 864786471

AFRL 63 872
CHICAGO U ILL
STUDY OF THE LARGE-SCALE CIRCULATION OF THE EARTH-S
ATMOSPHERE, AUG 1963.
BY LIPPS F R
INSTRUMENT AF 196604>07266
PROJ/TASK 8604 04

AFRL 63 874
INSTRUMENT CORP OF FLORIDA MELBOURNE
GEOMETRIC PHOTOGRAMMETRIC RESEARCH AND TECHNIQUE
DEVELOPMENT, AUG 1963.
BY WALKER C A
INSTRUMENT AF 196604>05967
PROJ/TASK 7600 03

AFRL 63 877
SOUTHERN CALIFORNIA U LOS ANGELES CALIF
PHOTOIONIZATION AND PHOTOIONIZATION-INDUCED ION-MOLECULE
REACTIONS, 1 AUG 1963.
BY WEISLER G L
DDC NUMBER 419549
INSTRUMENT AF 196604>06119
PROJ/TASK 668666880
PROJ/TASK 7635 04

AFRL 63 879
OKLAHOMA STATE U RESEARCH FOUNDATION STILLWATER
DIGITAL COMPUTER ROCKET TRAJECTORY ANALYSIS, MAY 1963.
BY COOPER G L
INSTRUMENT AF 196604>06648
PROJ/TASK 7659 03

AFRL 63 888
LIEGE U BELGIUM
PHOTOMETRIC ATLAS OF THE SOLAR SPECTRUM FROM 7498
ANGSTROMS TO 12016 ANGSTROMS, 1963.
MEM SOC ROY SCI LIEGE 4 1963
BY DELROUILLE L
ROLAND G
DDC NUMBER 429050
INSTRUMENT AF 616514>00962
PROJ/TASK 860186012

AFRL 63 889
HARVARD U CAMBRIDGE MASS
A WIRELESS PROBE FOR MEASURING AN ELECTROMAGNETIC
FIELD, 15 APR 1963.
BY LITZKA R
INSTRUMENT AF 196604>07262
PROJ/TASK 766176615

AFRL 63 890
MICHIGAN U ANN ARBOR MICH
THE DETERMINATION OF THE HINDERED MOTION IN HYDROGEN
DERIVED FROM ITS FAR INFRARED SPECTRUM, JUN 1963.
BY HUNT D H
INSTRUMENT AF 196604>06124
PROJ/TASK 8653 01

AFRL 63 893
CHICAGO U ILL
RESEARCH ON THE SOLAR-GEOPHYSICAL ASPECTS OF COSMIC
RADIATION AND MAGNETOHYDRODYNAMICS, 3 SEP 1963.
BY LINDEN T R
INSTRUMENT AF 196604>04554
INSTRUMENT AF 196604>01288
PROJ/TASK 860786070

AFRL 63 894
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y
EXPERIMENTAL STUDIES IN THE MICROWAVE PROBING OF MEDIAN
AND HIGH-TEMPERATURE PLASMAS
SMITHSONIAN CONTRIB ASTROPHYS 8 9 1963
BY FITZGERALD W
INSTRUMENT AF 19604>08070
PROJ/TASK 8697 07

AFRL 63 901
HARVARD U CAMBRIDGE MASS
TYPE IV SOLAR RADIO BURSTS, GEOMAGNETIC STORMS, AND POLAR
CAP ABSORPTION (PCA) EVENTS, DEC 1963.
SMITHSONIAN CONTRIB ASTROPHYS 8 9 1963
BY BELL B
DOC NUMBER 427149
INSTRUMENT AF 19604>04960
PROJ/TASK 7649 01

AFRL 63 906
COLUMBIA U NEW YORK N Y
SEISMIC SIGNALS ON THE DEEP OCEAN FLOOR, 31 AUG 1963.
BY BRENTIS D D
INSTRUMENT AF 19604>08357
PROJ/TASK 8652 04

AFRL 63 909
MCGILL U MONTREAL P Q CANADA
LONG WAVE RADIATION AND TOTAL RADIATION BALANCE AT THE
SURFACE IN THE ARCTIC, OCT 1963.
BY ORVIG S
INSTRUMENT AF 19604>07419
PROJ/TASK 8623 01

AFRL 63 910
STANFORD RESEARCH INST MENLO PARK CALIF
AN INVESTIGATION OF THUNDERSTORM DISTRIBUTION OVER
EXTENSIVE AREAS, NOV 1963.
BY BLACKMER R M JR
INSTRUMENT AF 19628>01681
PROJ/TASK 8624 01

AFRL 63 911
COLORADO U BOULDER
TRANSISTORIZED RADIOMETERS AND HIGH ALTITUDE RADIATION
MEASUREMENTS, 15 NOV 1963.
BY PARKER R
INSTRUMENT AF 19604>07240
PROJ/TASK 7643 0701

AFRL 63 913
PENNSYLVANIA STATE U UNIVERSITY PARK
THE IONIC STRUCTURE OF THE IONOSPHERE, 15 DEC 1963.
BY SWINER W
DOC NUMBER 427079
INSTRUMENT AF 19628>01042
PROJ/TASK 8605 02

AFRL 63 916
COLUMBIA U NEW YORK N Y
SEISMICITY OF THE SOUTH PACIFIC OCEAN, 1 NOV 1963.
J GEOPHYS RES 68 21 NOV 1963
BY SYKES L R
INSTRUMENT AF 19604>07376
PROJ/TASK 8652 03

AFRL 63 915
COLUMBIA U NEW YORK N Y
SPECTRUM, PHASE AND GROUP VELOCITIES OF THE THEORETICAL
SEISMOGRAMS AND THE IDEA OF THE EQUIVALENT SURFACE SOURCE
OF DISTURBANCE, SEP 1963.
GEOPHYS J 8 1 SEP 1963
BY SATO Y
USAMI Y
LANDISMAN M
INSTRUMENT AF 19604>07376
PROJ/TASK 8652 03

AFRL 63 916
COLUMBIA U NEW YORK N Y
BASIC STUDY OF THE OSCILLATION OF A SPHERE, PART V.
PROPAGATION OF TORSIONAL DISTURBANCES ON A RADIALLY
HETEROGENEOUS SPHERE, CASE OF A HOMOGENEOUS MANTLE WITH
A LIQUID CORE, SEP 1963.
GEOPHYS J 8 1 SEP 1963
BY SATO Y
USAMI Y
LANDISMAN M
FUNG H
INSTRUMENT AF 19604>07376
PROJ/TASK 8652 03

AFRL 63 917
RAYTHEON CO WALTHAM MASS
MULTIMODE OSCILLATIONS IN SOLID STATE MASERS, OCT 1963.
BY STATZ M
YANG C
INSTRUMENT AF 19628>07226
PROJ/TASK 4645 02

AFRL 63 920
WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS
CALIBRATION SATELLITE SYSTEM STUDY, 6 NOV 1963.
BY HARRIS M R
WICKSVY I W
KAHLER M R
DOC NUMBER 426799
INSTRUMENT AF 19628>01250
PROJ/TASK 5930 01

AFRL 63 923
SHEFFIELD U ENGLAND
DECAY OF THE TRIPLET STATE, 30 SEP 1963.
BY PORTER G
WILDERN J W
DOC NUMBER 427019
INSTRUMENT AF-EDAR -0113-62
PROJ/TASK 6696

AFRL 63 924
PENNSYLVANIA STATE U UNIVERSITY PARK
IONOSPHERIC RESEARCH, 31 AUG 1963.
BY PERAZZO A J
DOC NUMBER 429187
INSTRUMENT AF 19604>08012
PROJ/TASK 7643 01

AFRL 63 925
NEW YORK U NEW YORK
RESEARCH ON PHYSICS OF THE IONOSPHERE, 30 NOV 1963.
BY KOROVITZ S
DOC NUMBER 428961
INSTRUMENT AF 19604>04554
PROJ/TASK 7635 07

AFRL 63 926
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS
ION DISSOCIATION IN THE DRIFT TUBE OF A TIME-OF-FLIGHT
MASS SPECTROMETER, IV. IDENTIFICATION AND/OR PREDICTION OF
SPURIOUS FRAGMENTS DUE TO NORMAL IONS HEAVIER THAN THE
DISSOCIATING PARENT ION, DEC 1963.
BY MUNT W W JR
EHRHART W J
PROJ/TASK 7635 03

AFRL 63 927
COLORADO U BOULDER
REFLECTIVITY OF METALS IN THE EXTREME ULTRAVIOLET, DEC
1963.
BY THEISEN W
DOC NUMBER 427095
INSTRUMENT AF 19628>00287
PROJ/TASK 8627 03

AFRL 63 928
MASSACHUSETTS INST OF TECH CAMBRIDGE
HEMISPHERIC WATER BALANCE FOR THE IGY, 1 DEC 1963.
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AFRL 63 930
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SPECTRAL OBSERVATIONS OF SOLAR RADIO BURSTS, IV. THE
EXCITERS OF FAST-DRIFT BURSTS, NOV 1963.
ASTROPHYS J 130 1 JUL 1963
BY MUGGE H P
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AFRL 63 931
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IONOSPHERIC RESEARCH, 30 NOV 1963.
BY WAYNICK A M
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J GEOPHYS RES 68 22 NOV 1963
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AFRL 63 939
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PART III. EQUIPMENT FOR MEASUREMENT OF MAGNETIC FIELD
VARIATIONS FOR NASA PROJECT 6458, 30 APR 1961. PART IV.
MAGNETIC VARIATIONS AT CANTON ISLAND AND TUTUILA, SOMOA,
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AFRL 63 940
NORTHEASTERN U BOSTON MASS
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INSTRUMENT AF 19604>07358
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TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS
OPPOSED ANVIL BASIC DESIGN CONSIDERATIONS, DEC 1963.
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AFRL 63 942
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BY MORGAN R C
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DOC NUMBER 426668
INSTRUMENT AF 19604>05210
PROJ/TASK 5635 02

AFRL 63 945
HARVARD U CAMBRIDGE MASS
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AFRL 63 946
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OSLO U NORWAY
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AFRL 63 948
MANCHESTER U ENGLAND
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SEP 1963,
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AFRL 63 950
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AFRL 64 001
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JAN 1964,
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BY SHAW J D
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BY PENNETT D C
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BY BEN-DAVID A
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 BY PETERSON L R
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 TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION
 TIME CHANGES IN CLOUDS AND WATER VAPOR AS SHOWN BY TIROS
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 TIROS I. FEB 1964.
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 TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION
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INSTRUMENT AF 49<638>00376
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AFOSR 3103
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SELF-COUPLED MFSON FIELD/EQUATIONS FOR SINGLE PROPAGATORS,
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BY GOVINDARAJULU Z
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BY OMILIAN R DDC NUMBER 433723
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BY VAS I E DDC NUMBER 424293
HARVEY J K INSTRUMENT AF/AFOSR /0112/63
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BY REILLY J P DDC NUMBER 433723
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BY POSTMAN L J DDC NUMBER 429264
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BY KRAUSHAAR W L
CLARK G
DDC NUMBER 434412
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BOLIVIA 17/27 JUL 1962
BY CLARK G
ESCOBAR I
MIRAKAMI J
INSTRUMENT AF 49C638>00922
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SIGA K
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BY CLARK G
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BY SAVEDOFF M P
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BY DESMET J E
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BY DESMET J E
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BY GOVINDJEE R
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BY LLOYD S
PICKFORD W
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BY STURMUT W
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BY HAYIB P A
STARK M
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KORNFELD H L
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RY RLF I
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RY AMES III A DDC NUMBER 432739
GURTAN R S INSTRUMENT AF 49<638>00098
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FEWSON C A INSTRUMENT AF 49<638>00798
GIRRS M PROJ/TASK 9777 01
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AFOSR 44/0141
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY
FLUCTUATIONS OF RESPONSE TO A STABILIZED VISUAL STIMULUS
ATTI FOND G RONCHI V18 N4 PP548/560 SEP/OCT 1963
BY FIORENTINI A DDC NUMBER 432727
ERCOLES A M INSTRUMENT AF/EOAR /0004/63
PROJ/TASK 9777 01

AFOSR 44/0142
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY
ON SOME PECULIAR EFFECTS OCCURRING UNDER GREEN AND BLUE
STIMULATIONS
ATTI FOND G RONCHI V18 N4 PP511/532 SEP/OCT 1963
BY RONCHI L DDC NUMBER 432728
BITTINI M INSTRUMENT AF/EOAR /0004/63
PROJ/TASK 9777 01

AFOSR 44/0143
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY
APPARENT FINE STRUCTURE OF DEFOCUSSED PATCHES
ATTI FOND G RONCHI V18 N4 PP533/547 SEP/OCT 1963
BY RONCHI L DDC NUMBER 432729
BOTTAI G INSTRUMENT AF/EOAR /0004/63
PROJ/TASK 9777 01

AFOSR 44/0144
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY
ON A RAPID EFFECT FOLLOWING STRONG LIGHT ILLUMINATION
ATTI FOND G RONCHI V18 N4 PP561/568 SEP/OCT 1963
BY ERCOLES A M DDC NUMBER 432766
INSTRUMENT AF/EOAR /0004/63
PROJ/TASK 9777 01

AFOSR 44/0145
CORNELL U ITHACA N Y
FURTHER STUDIES ON THE PHOTOCHEMICAL PRODUCTION OF
REDUCED TRIPHOSPHOPYRIDINE NUCLEOTIDE AND ADENOSINE
TRIPHOSPHATE BY FRAGMENTED SPINACH CHLOROPLASTS
PLANT PHYSIOL V38 PP680/685 NOV 1963
BY FEWSON C A DDC NUMBER 432767
BLACK C C INSTRUMENT AF 49<638>00798
GIRRS M PROJ/TASK 9777 01

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PITTSBURGH U PA
INTERFERENCE OF EMISSION CHANGES WITH FAST ABSORPTION
CHANGES IN THE FLASH SPECTROSCOPY OF ALGAE
NAS / NRC SYM ON PHOTOSYNTHESIS MECHANISMS IN GREEN PLANTS
WARRENTON VA PP177/725 14/18 OCT 1963
BY INSELBERG F DDC NUMBER 432768
ROSENBERG J L INSTRUMENT AF/AFOSR /0349/63
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PITTSBURGH U PA
PRINCIPLES OF A THEORY OF ENERGY UTILIZATION IN
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NAS / NRC SYM ON PHOTOSYNTHESIS MECHANISMS IN GREEN PLANTS
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BY FRANK J DDC NUMBER 432769
ROSENBERG J L INSTRUMENT AF/AFOSR /0349/63
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LYON U FRANCE
A STUDY OF THE NEUROPHYSIOLOGICAL MECHANISMS OF DREAMING
ELECTROENCEPHALIC CLIN NEUROPHYSIOL SUPPL 24 PP133/157 1963
BY JOUVEY M DDC NUMBER 432575
JOUVEY D INSTRUMENT AF 61<052>00472 /0310/62
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AFOSR 64/0102
CAMBRIDGE U ENGLAND
THE ORIGIN OF THE AUTOKINETIC EFFECT
QUART J EXP PSYCHOL V19 PP252/261 NOV 1963
BY GREGORY R L DDC NUMBER 432576 /0093/63
ZANGWILL O L INSTRUMENT AF/EOAR
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TEXAS U AUSTIN
SELF-CONCEPT AND DISSONANCE REDUCTION
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BY WORMEL P DDC NUMBER 432792
MCCORMICK R L INSTRUMENT AF 49<638>00460 /0072/62
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SYSTEMS OF INFORMATION IN SMALL GROUP RESEARCH STUDIES
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BY MC GRATH J E DDC NUMBER 49<638>00256
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ERG FROM CONTRALATERAL STIMULATION
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BY FREEDMAN S J INSTRUMENT AF/AFOSR /0053/63
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BY ROSE E INSTRUMENT AF/AFOSR /0278/62
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BY FREEDMAN S J INSTRUMENT AF/AFOSR /0053/63
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CORTICAL LESIONS AFTER LIMITED FORCED PRACTICE
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BY PETERSON G M INSTRUMENT AF 49<638>00508 /0063/63
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BY SPREEN O INSTRUMENT AF 61<052>00483 /0244/62
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BY COHEN S I INSTRUMENT AF/AFOSR /0057/63
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BY ZILLER R C INSTRUMENT AF/AFOSR /0116/63
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BY GIKKING M INSTRUMENT AF/AFOSR /0170/62
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ARIZONA STATE U TEMPE
PARTIALLY BOUNDED J/FRACTIONS
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BY RIGGS L G INSTRUMENT AF/AFOSR /0310/62
SCOTT W T PROJ/TASK 9749 02

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RECURRENCE RELATIONS FOR THE INVERSE MOMENTS OF THE
POSITIVE BINOMIAL VARIABLE
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BY GOVINDARAJULU Z INSTRUMENT AF/AFOSR /0072/62
PROJ/TASK 9749 02

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STANFORD U CAL
ON THE BOUNDARY THEORY FOR MARKOV CHAINS
ACTA MATH V110 PP19/77 1963 DDC NUMBER 431016
BY CHUNG K L INSTRUMENT AF/AFOSR /0243/62
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BY GOSSELIN R P INSTRUMENT AF/AFOSR /0142/62
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BY GRUNBAUM R INSTRUMENT AF/EOAR /0063/63
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BY HILLE E INSTRUMENT AF 49<638>00224 /0268/62
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BY GRUNBAUM R INSTRUMENT AF/EOAR /0063/63
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BY SHAPIRO V L INSTRUMENT AF/AFOSR /0082/62
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PART I
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JAKIMOVSKI A PROJ/TASK 9749 02

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BY ROSNER D E INSTRUMENT AF 49<638>01138 /0244/62
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SOME DIVALENT AND TRIVALENT METALS
J AM CHEM SOC V85 PP2589/2590 1963 DDC NUMBER 432506
BY WEST R INSTRUMENT AF/AFOSR /0244/62
NIU H Y PROJ/TASK 9762 02

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BY SMITH G G INSTRUMENT AF/AFOSR /0268/62
JONES D A K PROJ/TASK 9762 02

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WISCONSIN U MADISON
THE MONOADDITION OF PHENYLSILANE TO CYCLIC POLYOLEFINS
J ORG CHEM V28 PP1417 1963 DDC NUMBER 432508
BY BAILEY R F INSTRUMENT AF/AFOSR /0244/62
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BY SMITH G G INSTRUMENT AF/AFOSR /0268/62
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HOWARD U WASHINGTON D C
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BY SHARMA R D DDC NUMBER 432509
TURRELL G C INSTRUMENT AF/AFOSR /0167/63
PROJ/TASK 9710 03

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MINNESOTA U MINNEAPOLIS
TIME/DEPENDENT PERTURBATION/VARIATION METHOD
J CHEM PHYS V39 N10 PP2474/2477 NOV 1963
BY YARIS R DDC NUMBER 432510
MFAD C A INSTRUMENT AF 49<638>00940
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THE NATURE OF SILIRENE COMPOUNDS
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BY WEST R DDC NUMBER 432511
BAILLY R F INSTRUMENT AF/AFOSR /0244/62
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J AM CHEM SOC V85 PP2586/2588 SEP 1963
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NIU H Y INSTRUMENT AF 49<638>00285
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AND ITS COPOLYMERS
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BY JACKSON J R DDC NUMBER 432513
FLORY P J INSTRUMENT AF/AFOSR /0131/62
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RICHARDSON M J

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J AM CHEM SOC V85 PP3754/3765 DEC 1963
BY RINGBER R F DDC NUMBER 432514
RUSSELL G A INSTRUMENT AF 49<638>00678
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J AM CHEM SOC V85 PP3765/3766 DEC 1963
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RUSSELL G A INSTRUMENT AF 49<638>00678
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FLORY P J INSTRUMENT AF/AFOSR /0131/62
CHIANG R PROJ/TASK 9760 03

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J SOCIAL PSYCHOL V61 PP311/325 1963
BY MARWELL G DDC NUMBER 432517
INSTRUMENT AF 49<638>00195
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SYSTEM
AMERICAN MANAGEMENT ASSOC ADMINISTRATIVE SERVICES DIVISION
ORIENTATION SEMINAR ON INFORMATION RETRIEVAL NEW YORK N Y
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BY HERNER S DDC NUMBER 432518
INSTRUMENT AF 49<638>01182
PROJ/TASK 9769 01

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YESHIVA U NEW YORK N Y
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TRANS AM MATH SOC V109 N1 PP135/145 OCT 1963
BY SULLIVAN P M DDC NUMBER 432519
INSTRUMENT AF/AFOSR /0433/63
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BY FAIRTHORNE R A DDC NUMBER 432520
INSTRUMENT AF 49<638>01261
PROJ/TASK 9769 02

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RECOGNITION
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BY GARVIN P L DDC NUMBER 432521
LADEFOGED P INSTRUMENT AF 49<638>01186
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BY MOORE S C N DDC NUMBER 432522
INSTRUMENT AF/AFOSR /0461/64
PROJ/TASK 9769 01

AFOSR 64/0235
RUTGERS STATE U NEW BRUNSWICK N J
THESAURUS CONTROLS AUTOMATIC BOOK INDEXING BY COMPUTER
PROC 26TH AN MEETING AM DOC INST CHICAGO ILL PP1/2 6/11
OCT 1963
BY ARTANDI S DDC NUMBER 432792
INSTRUMENT AF/AFOSR /0009/62
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AUTHORS
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BY HERNER S DDC NUMBER 432793
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MATHEMATICS, MECHANICS AND STATISTICS FOR THE INFORMATION
SCIENCE CURRICULUM OR WHAT MATHEMATICS DOES AN INFORMATION
SCIENTIST NEED
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BY FAIRTHORNE R A DDC NUMBER 432794
INSTRUMENT AF 49<638>01261
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OF VECTOR/VALUED FUNCTIONS
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BY DIAZ J B DDC NUMBER 432795
AZIZ A K INSTRUMENT AF/AFOSR /0494/62
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G D PLENUM PRESS N Y PP357/381 1963
BY ASCARELLI G DDC NUMBER 432524
INSTRUMENT AF/AFOSR /0215/62
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G D PLENUM PRESS N Y PP323/355 1963
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G D PLENUM PRESS N Y PP171/190 1963
BY DUFF R D DDC NUMBER 432526
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FEYMAN'S PATH/INTEGRAL METHOD APPLIED TO THE EQUILIBRIUM
PROPERTIES OF POLARONS AND RELATED PROBLEMS
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G D PLENUM PRESS N Y PP71/121 1963
BY SCHULTZ T D DDC NUMBER 432527
INSTRUMENT AF 49<638>00528
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SUPERCONDUCTIVITY OF SOME NEW PT/METAL COMPOUNDS
J PHYS CHEM SOLIDS V24 PP1093/1100 1963
BY RAUB CH J DDC NUMBER 432746
ZACHARIASEN W H INSTRUMENT AF/AFOSR /0344/62
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MATTHIAS B T

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BY EHRLICH G DDC NUMBER 431083
INSTRUMENT AF 49<638>00791
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INC NY V12 PP3/65 1963
BY BERRY R S
DDC NUMBER 431491
INSTRUMENT AF/AFOSR /0183/63
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ROLE OF GROUND STATE IN SINGLET/TRIPLET TRANSITION
PROBABILITIES
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BY GOODMAN L
KRISHNA V G
DDC NUMBER 432745
INSTRUMENT AF/AFOSR /0039/62
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BY HARTISM D F
UPAT R
DDC NUMBER 432776
INSTRUMENT AF/AFOSR /0244/62
PROJ/TASK 9762 02

AFOSR 64/0255
MINNESOTA U MINNEAPOLIS
DEOXYMERIZATION IN THE PRESENCE OF BOTH ACID AND IODIDE
ION
J ORG CHEM V20 PP3104/3108 NOV 1963
BY KREEVOY M N
STOKER G
KRECHMER R A
SMED A K
DDC NUMBER 432524
INSTRUMENT AF 49<638>00711
PROJ/TASK 9762 02

AFOSR 64/0256
MINNESOTA U MINNEAPOLIS
SECONDARY HYDROGEN ISOTOPE EFFECTS ON DEOXYMERIZATION
J ORG CHEM V20 PP2104/2106 AUG 1963
BY KREEVOY M N
EISEN B N
DDC NUMBER 434519
INSTRUMENT AF 49<638>00711
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THE SIZE OF THE SUPPORTIVE COMPONENT IN ORGANIZATIONS/
A MULTI/ORGANIZATIONAL ANALYSIS
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BY HAAS E
HALL R M
JOHNSON N J
DDC NUMBER 432525
INSTRUMENT AF 49<638>00447
PROJ/TASK 9778 02

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BIPOLAR THEORY OF METAL/SEMICONDUCTOR CONTACTS UNDER
ARBITRARY INJECTION LEVELS
CAN J PHYS V41 PP1010/1021 1963
BY MORITA R E
BURGESS R F
DDC NUMBER 432526
INSTRUMENT AF/AFOSR /0091/61
PROJ/TASK 9767 02

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GASES
J QUANT SPECTR RADIATIVE TRANSFER V3 PP35/50 1963
BY MARGENAU H
JACOBSON M C
DDC NUMBER 432523
INSTRUMENT AF 18<603>00015
PROJ/TASK 9767 01

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CALIFORNIA U BERKELEY
ATMOSPHERIC ROSSELAND MEAN OPACITIES
ASTROPHYS J SUPPL 80 PP277/306 19 JAN 64
BY VARDYA M S
DDC NUMBER 432527
INSTRUMENT AF/AFOSR /0171/63
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VIBRATIONAL ENERGY LEVELS OF IONIC MOLECULES BOUND BY
CLASSICAL FORCES
J CHEM PHYS V59 N10 PP2423/2428 15 NOV 63
BY PINN E J
DDC NUMBER 432528
INSTRUMENT AF/AFOSR /0160/62
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PHYS REV V131 N5 PP2305/2310 1 SEP 63
BY AMERIS F
ZERACH C
DDC NUMBER 432529
INSTRUMENT AF/AFOSR /0130/63
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SINGULARITIES IN THE UNPHYSICAL SHEETS AND THE ISOBAR
MODEL
PHYS REV V130 N6 PP2580/2592 15 JUN 63
BY HUA R C
DDC NUMBER 432530
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PRINCETON U N J
SPATIAL SEPARATION OF EVENTS IN S/MATRIX THEORY
PHYS REV V131 N6 PP2020/2026 15 SEP 63
BY PROISBART M
GOLDBERGER M L
WATSON R M
DDC NUMBER 432750
INSTRUMENT AF/AFOSR /0390/62
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GEORGIA U ATHENS
A HIGH/SPEED CONSTANT/ILLUMINATION TACHISTOSCOPE
AM J PSYCOL V76 PP691/693 DEC 1963
BY ZIMMER H
BOLEN C L
NICORA B D
DDC NUMBER 432531
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MASSACHUSETTS INST OF TECH CAMBRIDGE
THE STATISTICAL THERMODYNAMICS OF EQUILIBRIUM
ANN PHYS N Y V25 PP48/90 OCT 63
BY TISZA L
QUAY P M
DDC NUMBER 431084
INSTRUMENT AF 49<638>00095
PROJ/TASK 9751 02

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LEVEL CROSSINGS IN THE 555P 3P1 STATE OF RADIOACTIVE CD107
AND CD109
PHYS REV V132 N3 PP1106/1190 NOV 63
BY THADDFUS P
MCDERMOTT M N
DDC NUMBER 431082
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MILLIMETER ELECTROMAGNETIC RADIATION PRODUCED BY HIGH
ENERGY ELECTRON BEAMS, FINAL REPORT, 31 JAN 1963
BY BRANNEN E
DDC NUMBER 431119
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PROC SYM QUANTUM DEVICES OPT REGION NAT ELEC CONF CHICAGO
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BY MILES P A
DDC NUMBER 432744
INSTRUMENT AF/AFOSR /0317/62
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GENERAL DYNAMICS CORP CONVAIR DIV SAN DIEGO CALIF
INFRARED TRANSMISSION THROUGH THE ATMOSPHERE
APPL OPT V2 PP461/570 JUN 63
BY GREEN A F S
GRIGGS M
DDC NUMBER 432743
INSTRUMENT AF 49<638>00561
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COLUMBIA U NEW YORK N Y
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PHYS REV V132 PP1181/1185 1 NOV 63
BY BYRON JR F W
MCDERMOTT M N
NOVICK R
DDC NUMBER 431081
INSTRUMENT AF/AFOSR /0065/62
PROJ/TASK 9767 01

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PHYS REV V132 PP2373/2378 15 DEC 63
BY TOUGH J T
MCCORMICK W D
DASH J G
DDC NUMBER 432532
INSTRUMENT AF/AFOSR /0298/62
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OHIO STATE U RESEARCH FOUNDATION COLUMBUS
ELECTRON SPIN RESONANCE STUDY OF SOME ORGANIC
PHOTOCONDUCTORS
J CHEM PHYS V59 PP499/503 AUG 63
BY CHO B Y
NELSON R C
BROWN L C
DDC NUMBER 432533
INSTRUMENT AF 49<638>00745
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ON THE VALIDITY OF ONSAGERS RECIPROCITY RELATIONS FOR
STRONGLY COUPLED SYSTEMS
PHYS LETTERS V6 PP173/174 1 SEP 63
BY PRIGOGINE I
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CORRELATION FUNCTION METHOD
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IOWA STATE U OF SCIENCE AND TECH AMES
SOUND DISPERSION IN SUBSTITUTED METHANE/INERT GAS MIXTURES
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BY OLSON J R
LFGVOLD S
DDC NUMBER 431086
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CALIFORNIA INST OF TECH PASADENA
THE ULTRAVIOLET SPECTRUM OF 3 CENTAURI A
ASTROPHYS J V130 PP90/96 1 JUL 63
BY JAGARU J
SERGEANT W L W
DDC NUMBER 431085
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DDC NUMBER 431493
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NUOVO CIMENTO V80 PP345/398 OCT 1963
BY WIDLICH W
MITRA A K
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BY MATSFN F A
BROWN J C
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DAIS C F
SMALL R J
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BY KRISHNA V G
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BY ELDREDGE N T
READ G
CUTTING W
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REPORT, JAN 1964
BY NACHTRIFER N H
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BY DEWAR M J S
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MAINS G J
DDC NUMBER 434520
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BY GROSS R A
MARSHALL T
CHU C K
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ANN PHYSIK S7 V11 PP132/137 1963
BY CAP F
HOMMEL R
DDC NUMBER 434501
INSTRUMENT AF 61<052>00675
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ANN PHYSIK V7 N11 PP197/200 1963
BY CAP F
INSTRUMENT AF 61<052>00675
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BY LINNETT J W
ROOTH M H
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STANFORD U CAL
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J GEOPHYS RES V68N15 PP4409/4420 1 AUG 63
BY HELLWELL R A
CARPENTER D L
DDC NUMBER 434531
INSTRUMENT AF 49<638>01060
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BY LIU C L
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ARMY RESEARCH OFFICE DURHAM N C
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BY NARENDRA K S
MCBRIDE JR L E
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INVARIANT SAMPLE/DATA SYSTEM
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BY LEE C T
DESORER C A
DDC NUMBER 434530
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IONIZATION DENSITY PROFILE
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DDC NUMBER 433075
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TRIVELPIECE A W
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BY PRISCH I Y
DDC NUMBER 434508
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BY LIDSEY L M
ROSE D J
INSTRUMENT DA /36/039/SC/78108
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BY WHITHOUSE D R
WOLLMAN M B
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BY ALTSCHULER M H
DDC NUMBER 434507
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BY GOODALL M C
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BY HUANG J S T
PANDISCIO A A
INSTRUMENT NONR /1866<16>
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SMITH M A
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KAHN M K
DDC NUMBER 434505
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BY LIU C L
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BY FIOCCO G
SMULLIN L D
INSTRUMENT DA /36/039/SC/78108
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THE / 6 - RATIO FOR PHOTOPRODUCTION FROM DEUTERIUM
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BY PINE J
04714 N
DDC NUMBER 434515
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WHISTLERS
7TH LOCKHEED SYMP MAGNETOHYDRODYNAMICS PALO ALTO CALIF
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INSTRUMENT AF 18<603>00126
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BY LUDOVICI R F
DDC NUMBER 434512
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BY HAMMERS G G
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BY GARLAND C W
JONES J S
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BY DUPREE T H
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OF NONLINEAR SYSTEMS
SUPPLEMENTARY TECHNICAL REPORT NO 415
BY NARENDRA K S
GOLDWYN R M
INSTRUMENT NONR /1866<16>
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BY TUFTS D W
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BY CHANG M Y
INSTRUMENT DA /36/039/AMC/02208
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BY KRENZ J H
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BY PANTELL R H
DIDOMENICO JR M
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INSTRUMENT NONR /225<48>
PROJ/TASK 4751

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BY MESSINGER M DDC NUMBER 419083
PARKER H F INSTRUMENT AF/AFOSR /0295/62
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FAR/INFRARED STUDY OF OPTICAL MODES AND INDEX OF REFRACTION
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BY LEBECH B INSTRUMENT NONR /225<48>
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ASYMPTOTIC FIXED POINT THEOREMS AND PERIODIC SYSTEMS OF
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INSTRUMENT AF 49<638>00382
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AM MATH MONTHLY V70 N7 PP718/722 AUG/SEP 1963
BY TUCKER H G DDC NUMBER 431161
INSTRUMENT AF/AFOSR /0328/62
PROJ/TASK 9749 01

AFOSR 64/0358
MARYLAND U COLLEGE PARK
INTEGRAL OPERATOR METHODS IN BI/AXIALLY SYMMETRIC POTENTIAL
THEORY
CONTRIBUTIONS DIFFERENTIAL EQUATIONS V2 PP441/456 1963
BY GILBERT R P DDC NUMBER 433066
INSTRUMENT AF/AFOSR /0454/62
PROJ/TASK 9749 01

AFOSR 64/0359
MARYLAND U COLLEGE PARK
EXISTENCE OF SOLUTIONS OF AN N/TH ORDER HYPERBOLIC
PARTIAL DIFFERENTIAL EQUATION
CONTRIBUTIONS DIFFERENTIAL EQUATIONS V2 N1/4 PP277/289 1963
BY CONLAN J DDC NUMBER 434504
DIAZ J B INSTRUMENT AF 49<638>00228
PROJ/TASK 9749 01

AFOSR 64/0360
TRIESTE U ITALY
SOME REMARKS ON DIFFERENTIAL EQUATIONS, FIRST ORDER
OPERATORS 6FRENCH6
SEMINARIO MATEMATICO PADOVA U V33 PP213/225 1963
BY LIONS J L DDC NUMBER 434506
INSTRUMENT AF/EOAR /0007/62
PROJ/TASK 9749 01

AFOSR 64/0361
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD
ON THE ABSOLUTE STABILITY SYSTEM OF FINITE DIFFERENCE
EQUATIONS 6FRENCH6
COMPT REND ACAD SCI PARIS V257 PP388/390 8 JUL 1963
BY SZEGO G DDC NUMBER 434536
KALMAN R INSTRUMENT AF 49<638>01206
PROJ/TASK 9749 01

AFOSR 64/0362
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD
ON THE ABSOLUTE STABILITY OF A NON/LINEAR DISCRETE SYSTEM
6FRENCH6
COMPT REND ACAD SCI PARIS V257 PP1749/1751 8 JUL 1963
BY LEFSCHETZ M S DDC NUMBER 433064
SZEGO M G INSTRUMENT AF 49<638>01206
PROJ/TASK 9749 01

AFOSR 64/0363
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD
ON THE ABSOLUTE STABILITY OF SAMPLED/DATA CONTROL SYSTEMS
PROC NAT ACAD SCI US V50 N3 PP558/560 SEP 1963
BY SZEGO G P DDC NUMBER 433065
INSTRUMENT AF 49<638>01206
PROJ/TASK 9749 01

AFOSR 64/0364
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD
PION/PION SCATTERING IN THE STRIP APPROXIMATION / I
NUOVO CIMENTO V30 N1 PP207/229 1 OCT 63
BY BRANDEN R H DDC NUMBER 434521
RIIDEK D C INSTRUMENT AF 49<638>01211
MOFFAT J W PROJ/TASK 9751 01
MORRISON R G
MORGAN D

AFOSR 64/0365
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND
FEYNMAN RULES FOR REGGE PARTICLES
PHYS REV V131 N5 PP2282/2291 1 SEP 63
BY KIRALF T W A DDC NUMBER 434527
INSTRUMENT AF/EOAR /0087/62
PROJ/TASK 9751 01

AFOSR 64/0367
CAMBRIDGE U ENGLAND
REGGE POLES AND BRANCH CUTS FOR POTENTIAL SCATTERING
J MATH PHYS V4 N3 PP359/371 MAR 63
BY CHELLIFOUR J DDC NUMBER 434526
EDEN R J INSTRUMENT AF/EOAR /0079/63
PROJ/TASK 9751 01

AFOSR 64/0368
CAMBRIDGE U ENGLAND
SINGULARITY OF THE REGGE AMPLITUDE
PHYS REV V130 N6 PP2560/2565 15 JUN 63
BY ISLAM J N DDC NUMBER 434525
LANDSHOFF P V INSTRUMENT AF/EOAR /0079/63
TAYLOR J C PROJ/TASK 9751 01

AFOSR 64/0369
CAMBRIDGE U ENGLAND
FINAL/STATE INTERACTIONS IN THE ELECTRON/SCATTERING OF
DEUTERIUM
PHYS REV V130 N6 PP2495/2501 15 JUN 63
BY NUTTALL J DDC NUMBER 434524
WHIPMAN M L INSTRUMENT AF/EOAR /0079/63
PROJ/TASK 9751 01

AFOSR 64/0370
CAMBRIDGE U ENGLAND
SINGULARITIES OF FEYNMAN AMPLITUDES
NUOVO CIMENTO SX V29 PP720/741 1 AUG 63
BY DRUMMOND I T DDC NUMBER 434537
INSTRUMENT AF/EOAR /0079/63
PROJ/TASK 9751 01

AFOSR 64/0371
STANFORD U CAL
THEOREM ON THE SHRINKING OF DIFFRACTION PEAKS
PHYS REV V132 N2 PP836/837 15 OCT 63
BY FINN A C DDC NUMBER 434528
INSTRUMENT AF/AFOSR /0452/62
PROJ/TASK 9751 01

AFOSR 64/0372
CALIFORNIA U BERKELEY
BALLOON OBSERVATIONS OF THE EXTENT AND STRUCTURE OF AURORA/
ZONE ELECTRON PRECIPITATION EVENTS
J GEOPHYS RES V68 N22 PP6069/6077 15 NOV 63
BY BROWN R R DDC NUMBER 434532
BARCUS J R INSTRUMENT AF/AFOSR /0422/62
PROJ/TASK 9774 02

AFOSR 64/0374
BRANDFIS U WALTHAM MASS
SELECTION RULES IMPOSED BY THE SYMMETRICAL SAKATA MODEL
ANN PHYS V19 N2 PP314/322 2 AUG 62
BY ISO C DDC NUMBER 434533
INSTRUMENT AF/AFOSR /0022/61
PROJ/TASK 9751 01

AFOSR 64/0375
BRANDFIS U WALTHAM MASS
TWO/NEUTRINO HYPOTHESIS AND LEPTON/BARYON SYMMETRY
NUOVO CIMENTO SX V25 PP456/458 16 JUL 62
BY ISO C DDC NUMBER 434503
INSTRUMENT AF/AFOSR /0022/61
PROJ/TASK 9751 01

AFOSR 64/0377
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD
PION/PROTON DIFFRACTION SCATTERING AT VERY SMALL MOMENTUM
TRANSFERS
PHYS REV V132 N3 PP1225/1226 1 NOV 63
BY GATLAND I R DDC NUMBER 434529
MOFFAT J W INSTRUMENT AF 49<638>01211
PROJ/TASK 9751 01

AFOSR 64/0378
CAMBRIDGE U ENGLAND
ON THE ANALYTIC CONTINUATION OF THE SCATTERING AMPLITUDE
THROUGH A THREE/PARTICLE CUT
NUOVO CIMENTO SX V28 PP1318/1336 16 JUN 63
BY OLIVE D I DDC NUMBER 434535
INSTRUMENT AF/EOAR /0079/63
PROJ/TASK 9751 01

AFOSR 64/0379
CAMBRIDGE U ENGLAND
UNITARITY AND THE EVALUATION OF DISCONTINUITIES / II
NUOVO CIMENTO SX V29 PP326/335 16 JUL 63
BY OLIVE D I DDC NUMBER 434534
INSTRUMENT AF/EOAR /0079/63
PROJ/TASK 9751 01

AFOSR 64/0380
CORNELL U ITHACA N Y
INTENSITY INCREASE OF KIKUCHI LINES DURING ELECTRON
BOMBARDMENT
J APPL PHYS V33 N2 PP764/765 FEB 62
BY YODA E DDC NUMBER 433073
INSTRUMENT AF/AFOSR /0007/62
PROJ/TASK 9761 03

AFOSR 64/0381
CORNELL U ITHACA N Y
REDUCTION OF CONTAMINATION IN REFLECTION ELECTRON
DIFFRACTION
J APPL PHYS V33 N4 PP1419/1422 APR 62
BY YODA E DDC NUMBER 433071
SIEGEL R M INSTRUMENT AF/AFOSR /0007/62
PROJ/TASK 9761 03

AFOSR 64/0909
ILLINOIS U URBANA
RADIOGRAPH MEASUREMENT OF THE DESORPTION ENERGY OF SILVER
FROM POLYMER AND NICKEL
J CHEM PHYS V50 N1 PP169/174 1 JUL 67
BY VON GUTLER E
PFAUCKE R M
DOC NUMBER 432748
INSTRUMENT AF 49C630>00049
PROJ/TASK 9761 03

AFOSR 64/0906
ILLINOIS U URBANA
MOSSBAUER DETERMINATIONS OF ISOMERIC SHIFT AND QUADRUPOLE
SPLITTING IN SOME 1129 COMPOUNDS
PHYS LETTERS V5 N3 PP217/220 1 JUL 67
BY P. HAARD M
P. PASCHALL G
HAPPELSTEDT D
DOC NUMBER 432749
INSTRUMENT AF 49C630>01048
PROJ/TASK 9761 03

AFOSR 64/0909
WESTINGHOUSE ELECTRIC CORP WASHINGTON D C
MIGRATION OF A LIQUID ZONE THROUGH A SOLID PART II
J APPL PHYS V54 N4 PP2763/2767 SEP 63
BY TILLER M A
DOC NUMBER 432747
INSTRUMENT AF 49C630>01029
PROJ/TASK 9761 02

AFOSR 64/0909
ILLINOIS U URBANA
LIFETIME OF THE 26.0 KEV STATE OF 1129
PHYS LETTERS V5 N2 PP9 1 DEC 63
BY DE HAARD M
BARWELL W M
HAPPELSTEDT D
DOC NUMBER 434516
INSTRUMENT AF 49C630>01048
PROJ/TASK 9761 03

AFOSR 64/0901
NEW YORK U NEW YORK
A GEOMETRIC TEST/SYNTHESIS PROCEDURE FOR A THRESHOLD DEVICE
INFORM CONTROL V6 N4 PP381/398 DEC 63
BY KASSMAN D
DOC NUMBER 435052
INSTRUMENT AF/AFOSR /0024/63
PROJ/TASK 9769 02

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ARIZONA U TUCSON
A DELTA/SIGNAL MODULATION SYSTEM FOR TIME DELAY AND ANALOG
FUNCTION STORAGE
AFOSR SCIENTIFIC REPORT JAN 1964
BY MARSHALL M
MARSHALL R M
DOC NUMBER 434539
INSTRUMENT AF/AFOSR /0089/64
PROJ/TASK 9769 01

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ARIZONA U TUCSON
A HYBRID ANALOG/DIGITAL PSEUDO-RANDOM NOISE GENERATOR
AFOSR SCIENTIFIC REPORT JAN 1964
BY HAMPTON R L Y
INSTRUMENT AF/AFOSR /0089/64
PROJ/TASK 9769 01

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NEW YORK U NEW YORK
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BY KASSMAN D
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PROJ/TASK 9769 02

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INDIANA U RESEARCH FOUNDATION BLOOMINGTON
INFORMATION STRUCTURES IN LINGUISTICS: FINAL REPORT, DEC
1963
BY SEBORG T A
DOC NUMBER 433001
INSTRUMENT AF/AFOSR /0072/63
PROJ/TASK 9769 03

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ARIZONA U TUCSON
A HYBRID ANALOG/DIGITAL PARAMETER OPTIMIZER FOR ASTRAC II
AFOSR SCIENTIFIC REPORT ACL MEMO 90 JANUARY 1964
BY MITCHELL JR B A
DOC NUMBER 434559
INSTRUMENT AF/AFOSR /0089/64
PROJ/TASK 9769 01

AFOSR 64/0400
MASSACHUSETTS INST OF TECH CAMBRIDGE
YIELD AND ANGULAR DISTRIBUTION OF CERENKOV RADIATION FROM
EXTENSIVE AIR SHOWERS
PROC 65TH INTERAM SEM COSMIC RAYS LA PAZ BOLIVIA
PP16V1/BLV/7 17/27 JUL 1962
BY KASHA M
ORFEN Y
INSTRUMENT AF 49C630>00922
PROJ/TASK 9774 02

AFOSR 64/0411
ILLINOIS U URBANA
RESEARCH IN THE PHYSICS OF SOLIDS: FINAL REPORT,
30 DEC 1963
BY SPITZ F
DOC NUMBER 432717
INSTRUMENT AF 49C630>00528
PROJ/TASK 9761 01

AFOSR 64/0412
ILLINOIS INST OF TECH CHICAGO
SUPPRESSION OF THE BAUSCHINGER EFFECT AND CHANGES IN FLOW
PATTERN OF DUCTILE METALS CAUSED BY CYCLIC TORSIONAL
STRAINS
ANN MEETING 66 AM SOC TESTING MATER ATLANTIC CITY N J PP1/
11 23/28 JUN 1963
BY POLAKOWSKI R M
DOC NUMBER 432137
INSTRUMENT AF 49C630>00308
PROJ/TASK 9760

AFOSR 64/0414
SYRACUSE U RESEARCH INST N Y
PARAMAGNETIC RELAXATION IN SMALL PARTICLES
INT COMP PARAMAGNETIC RESONANCE LOW M ED ACADEMIC PRESS V2
PP490/442 1963
BY MORRIS A
DOC NUMBER 435063
INSTRUMENT AF/AFOSR /0425/63
PROJ/TASK 9761 02

AFOSR 64/0417
ORIGON U EUGENE
OPTICAL ABSORPTION IN CAD SINGLE CRYSTALS
J PH & CHEM SOLIDS V24 PP1101/1104 1963
BY WELBY V I
RIMP J C
DOC NUMBER 435064
INSTRUMENT AF/AFOSR /0180/62
PROJ/TASK 9763 02

AFOSR 64/0418
ORIGON U EUGENE
WAVE FUNCTIONS FOR F CENTERS IN MgO
PHYS REV V132 N1 PP215/223 1 OCT 1963
BY WELBY V I
WELBY V I
DOC NUMBER 435013
INSTRUMENT AF/AFOSR /0180/62
PROJ/TASK 9763 02

AFOSR 64/0419
ROCHESTER U N Y
VARIATIONAL THEORY OF PARAMAGNETIC IMPURITIES IN VAN DER
WAALS CRYSTALS
PHYS REV V131 N5 PP2056/2069 1 SEP 1963
BY SMITH D V
DOC NUMBER 435015
INSTRUMENT AF/AFOSR /0145/62
PROJ/TASK 9761 01

AFOSR 64/0420
RUTGERS STATE U NEW BRUNSWICK N J
INTERPRETATION OF DEBYE-WALLER FACTORS
PHYS REV V132 N7 PP644/647 15 OCT 1963
BY FELDMAN J I
MORTON G K
DOC NUMBER 435014
INSTRUMENT AF/AFOSR /0167/62
PROJ/TASK 9761 01

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TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL
DYNAMIC MAGNETORESISTANCE LOOPS OF COLD WORKED NICKEL AT
LOW TEMPERATURES
CRYOSPHERICS V5 N4 247/243 DEC 63
BY HIRSCH A A
FELDMAN J I
WELBY V I
INSTRUMENT AF 41C052>00481
PROJ/TASK 9763 02

AFOSR 64/0424
CALIFORNIA U LA JOLLA
MECHANISM FOR SUPERCONDUCTIVITY IN LANTHANUM AND URANIUM
PHYS REV LETTERS V11 N5 PP205/207 1 SEP 1963
BY HAMILTON D C
JENSEN M A
DOC NUMBER 435068
INSTRUMENT AF/AFOSR /0344/62
PROJ/TASK 9763 02

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ILLINOIS U URBANA
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ANN NY ACAD SCI ARTICLE 3 V101 23 PP657/668 23 JAN 1963
BY MARSHALL M
DOC NUMBER 435007
INSTRUMENT AF 49C630>00417
PROJ/TASK 9763 02

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ARFORDEN U SCOTLAND
THE ROLE OF ORIENTED TRANSFORMATIONS IN MINERALOGY
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BY GLASSER L S D
GLASSER F P
TAYLOR M F W
DOC NUMBER 435009
INSTRUMENT AF 41C052>00276
PROJ/TASK 9761 03

AFOSR 64/0427
ILLINOIS U URBANA
NEW METHOD FOR THE MEASUREMENT OF SURFACE ELECTRICAL
CONDUCTIVITY OF SI AND GE BY CLEAVAGE
APPL PHYS LETTERS V3 N6 PP66/97 15 SEP 1963
BY MARSHALL M
DOC NUMBER 435008
INSTRUMENT AF 49C630>00417
PROJ/TASK 9763 02

AFOSR 64/0428
MASSACHUSETTS INST OF TECH CAMBRIDGE
ANTISHIELDING OF MAGNETIC AND ELECTRIC HYPERFINE
INTERACTIONS IN OPEN SHELL IONS
PHYS REV V131 N6 PP2566/2573 15 SEP 1963
BY FELDMAN J I
WATSON R F
DOC NUMBER 434317
INSTRUMENT AF 19C604>01344
PROJ/TASK 9764

AFOSR 64/0429
CHICAGO U ILL
POLARIZATION CONDUCTIVITY IN P-TYPE GERMANIUM
PHYS REV V132 N1 PP178/180 1 OCT 1963
BY GULIN S
DOC NUMBER 436282
INSTRUMENT AF/AFOSR /0178/62
PROJ/TASK 9763 02

AFOSR 64/0431
ARFORDEN U SCOTLAND
CRYSTAL CHEMISTRY OF SOME AR2O4 COMPOUNDS
J AM CERAM SOC V66 N8 PP1772/1780 AUG 1963
BY GLASSER F P
GLASSER L S D
DOC NUMBER 436368
INSTRUMENT AF 41C052>00276
PROJ/TASK 9761 03

AFOSR 64/0432
ARFORDEN U SCOTLAND
CRYSTALLOGRAPHY OF THE C60H20 POLYMORPHS
Z KRIST V110 PP257/267 1963
BY JEVARATHAN J
GLASSER F P
GLASSER L S D
DOC NUMBER 436369
INSTRUMENT AF 41C052>00276
PROJ/TASK 9761 03

AFOSR 64/0434
WESTINGHOUSE ELECTRIC CORP WASHINGTON D C
PREFERRED CASTING ORIENTATIONS OF HIGH-PURITY ZINC AND TIN
TRAN: MET SOC AIME V227 PP1643/1646 DEC 1963
BY ROLLING G F
BRAMER J I
TILLER M A
DOC NUMBER 436367
INSTRUMENT AF 49C630>01029
PROJ/TASK 9761 02

AFOSR 64/0435
MINNESOTA U MINNEAPOLIS
ELECTRON SPIN RESONANCE STUDIES OF IMPURITIES IN II-VI
COMPOUNDS
INT CONF PARAMAGNETIC RESONANCE JERUSALEM LOW W ED ACADEMIC
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RY AIZINS P
ORTON J W
WERTZ J E
DDC NUMBER 433067
INSTRUMENT AF/AFOSR /0054/62
PROJ/TASK 9761 03

AFOSR 64/0436
MARYLAND U COLLEGE PARK
CORRECTIONS TO THE DIELECTRIC CONSTANT OF A DEGENERATE
ELECTRON GAS
PHYS REV V129 N3 PP1399/1410 1 FEB 63
RY GLICK A J
DDC NUMBER 433086
INSTRUMENT AF/AFOSR /0046/62
PROJ/TASK 9761 01

AFOSR 64/0437
MARYLAND U COLLEGE PARK
LOCALIZED MODE DETECTION BY MEANS OF THE MOSSBAUER EFFECT
PHYS REV V131 N2 PP535/539 15 JUL 63
RY DINHOFFER A D
DDC NUMBER 435651
INSTRUMENT AF/AFOSR /0046/62
PROJ/TASK 9761 01

AFOSR 64/0438
MARYLAND U COLLEGE PARK
EQUIVALENCE OF THE BRYKS APPROXIMATION AND THE
DETERMINANTAL METHOD
PHYS REV V129 N5 PP2340/2341 1 MAR 63
RY FALK D S
DDC NUMBER 433069
INSTRUMENT AF/AFOSR /0046/62
PROJ/TASK 9761 01

AFOSR 64/0440
CHICAGO U ILL
SELF-DIFFUSION OF LIQUID ZINC
J PHYS CHEM V67 PP2353/2355 NOV 1963
RY NACHTRIEF N H
FRAGA E
WAHL C
DDC NUMBER 435654
INSTRUMENT AF/AFOSR /0231/62
PROJ/TASK 9761 03

AFOSR 64/0442
CALIFORNIA U LA JOLLA
SEARCH FOR SUPERCONDUCTIVITY IN THE HYDRIDES OF LANTHANUM
J PHYS CHEM SOLIDS V24 PP1375/1377 1963
RY MERRIAM M F
SCHREIBER D S
DDC NUMBER 435665
INSTRUMENT AF/AFOSR /0344/62
PROJ/TASK 9763 02

AFOSR 64/0443
ILLINOIS U URRANA
DIFFUSION OF OXYGEN AND NITROGEN BETWEEN SPECIAL
INTERSTITIAL SITES IN SOLID SOLUTION IN YTTERBIUM
TRANS MET SOC AIME V230 PP16/19 FEB 64
RY MAH G
WERT C
DDC NUMBER 436175
INSTRUMENT AF/AFOSR /0192/62
PROJ/TASK 9763 01

AFOSR 64/0444
ILLINOIS U URBANA
DIPRECIPITATION IN GOLD/NICKEL ALLOYS
TRANS MET SOC AIME V230 PP255/256 FEB 64
RY GIBALA R
DDC NUMBER 434416
INSTRUMENT AF/AFOSR /0192/62
PROJ/TASK 9763 01

AFOSR 64/0448
ALABAMA U UNIVERSITY
TEMPERATURE DEPENDENCE OF THE PURE QUADRUPOLE RESONANCE
FREQUENCY AND SPIN/LATTICE RELAXATION TIME IN NABRO3 AT LOW
TEMPERATURE
J CHEM PHYS V39 N10 PP2730/2735 15 NOV 63
RY TIPSWORD R F
MOULTON W G
DDC NUMBER 436173
INSTRUMENT AF/AFOSR /0043/61
PROJ/TASK 9763 03

AFOSR 64/0449
NAPLES U ITALY
RENORMALIZATION GROUP AND COMPLETENESS OF FIELD THEORIES.
NUCLEON/PION COUPLINGS
NUOVO CIMENTO V27 5X PP1185/1207 1 MAR 63
RY CAIANIELLO E R
MARINARO M
DDC NUMBER 436172
INSTRUMENT AF 61<052>00434
PROJ/TASK 9761 01

AFOSR 64/0450
WASHINGTON U SEATTLE
SIMPLE HEAT SWITCH FOR LOW TEMPERATURE USE
REV SCI INSTR V34 N11 PP1276/1277 NOV 63
RY DASH J G
SIEGWARTH J
DDC NUMBER 435921
INSTRUMENT AF 49<638>01004
PROJ/TASK 9763 03

AFOSR 64/0455
ROCHESTER U N.Y.
ELECTRONIC BAND STRUCTURE AND WANNIER EXCITON STATES IN
SOLID KRYPTON
PHYS REV V132 44 PP1591/1599 15 NOV 63
RY FOWLER W R
DDC NUMBER 435917
INSTRUMENT AF/AFOSR /0145/62
PROJ/TASK 9761 01

AFOSR 64/0456
CAMBRIDGE U ENGLAND
WORK/HARDENING IN NIOBIUM SINGLE CRYSTALS
PHIL MAG V8 N95 PP1895/1920 NOV 63
RY MITCHELL T E
FOXALL R A
HIRSCH P R
DDC NUMBER 435916
INSTRUMENT AF 61<052>00098
PROJ/TASK 9763 01

AFOSR 64/0457
MADRID U SPAIN
CRYSTAL GROWTH, I.e. GROWTH VELOCITIES IN CONDITIONS OF
COMPETENCE, SPANISH
BOL REAL SOC ESPAN HIST NAT SECC GEOL V61 PP187/200 1963
RY AMOROS J L
MARTIN F
TAVIRA P
DDC NUMBER 435667
INSTRUMENT AF/EDAR /0092/62
PROJ/TASK 9761 03

AFOSR 64/0448
CALIFORNIA U LA JOLLA
SUPERCONDUCTIVITY
REV MOD PHYS V35 N1 PP1/22 JAN 63
RY MATTHIAS R T
GIBALLE T H
COMPTON V R
DDC NUMBER 435666
INSTRUMENT AF/AFOSR /0344/62
PROJ/TASK 9763 02

AFOSR 64/0449
CALIFORNIA U LA JOLLA
SUPERCONDUCTIVITY IN THE INDIUM/TIN SYSTEM
PHYS REV V131 N2 PP637/643 15 JUL 63
RY MERRIAM M F
VON HERZEN M
DDC NUMBER 435661
INSTRUMENT AF/AFOSR /0344/62
PROJ/TASK 9763 02

AFOSR 64/0460
CALIFORNIA U LA JOLLA
BRILLOUIN ZONE EFFECTS, SUPERCONDUCTIVITY, AND FERMI
SURFACE OF INDIUM ALLOYS
PHYS REV LETTERS V11 N7 PP321/323 1 OCT 63
RY MERRIAM M F
DDC NUMBER 435904
INSTRUMENT AF/AFOSR /0344/62
PROJ/TASK 9763 02

AFOSR 64/0461
CALIFORNIA U LA JOLLA
INDUCENT OF SUPERCONDUCTIVITY BY VARIATION OF STRUCTURAL
PARAMETERS
PHYS REV LETTERS V11 N7 P313 1 OCT 63
RY ARMENIUS G
RAUB C J
HAMILTON D C
MATTHIAS R T
DDC NUMBER 435662
INSTRUMENT AF/AFOSR /0344/62
PROJ/TASK 9763 02

AFOSR 64/0463
TEXAS U AUSTIN
SOME THERMOELECTRIC PROPERTIES OF POLYCRYSTALLINE LANTHANUM
TELLURIDE, LATE 1.7 TO LATE 2.0
J APPL PHYS V36 N9 PP2917/2918 SEP 63
RY RANSEY T H
STEINFINK H
WISS E J
DDC NUMBER 435660
INSTRUMENT AF/AFOSR /0237/62
PROJ/TASK 9761 02

AFOSR 64/0464
PITTSBURGH U PA
ELECTRICAL RESISTIVITY OF FERROMAGNETIC METALS AT LOW
TEMPERATURES
PHYS REV V132 N2 PP542/558 15 OCT 63
RY GOODINGS D A
DDC NUMBER 435659
INSTRUMENT AF/AFOSR /0196/63
PROJ/TASK 9761 01

AFOSR 64/0465
CALIFORNIA U RIVERSIDE
SCATTERING OF SPIN WAVES BY MAGNETIC DEFECTS
PHYS REV V132 N5 PP2003/2009 1 DEC 63
RY CALLAWAY J
DDC NUMBER 435658
INSTRUMENT AF/AFOSR /0318/62
PROJ/TASK 9761 01

AFOSR 64/0468
MASSACHUSETTS INST OF TECH CAMBRIDGE
SEARCH FOR FERROMAGNETICALLY TRAPPED MAGNETIC MONOPOLES OF
COSMIC/RAY ORIGIN
PHYS REV V132 N1 PP187/196 1 OCT 63
RY GOTO E
KOLM H H
FORD K W
DDC NUMBER 435657
INSTRUMENT AF 19<604>07344
PROJ/TASK 9764

AFOSR 64/0469
MASSACHUSETTS INST OF TECH CAMBRIDGE
MAGNETIC/FIELD DEPENDENCE OF FREE/CARRIER ABSORPTION IN
SEMICONDUCTORS
PHYS REV V132 N1 PP97/104 1 OCT 63
RY FIBBYNA J Y
BRODWIN M F
DDC NUMBER 435655
INSTRUMENT AF 19<604>07344
PROJ/TASK 9764

AFOSR 64/0470
MASSACHUSETTS INST OF TECH CAMBRIDGE
QUANTUM OSCILLATIONS OF THE ULTRASONIC ABSORPTION IN LEAD
TELLURIDE
PHYS LETTERS V7 N2 PP133/134 1 NOV 63
RY SHAPIRA Y
LAX R
DDC NUMBER 435649
INSTRUMENT AF 19<604>07344
PROJ/TASK 9764

AFOSR 64/0471
HEBREW U JERUSALEM ISRAEL
PARAMAGNETIC RESONANCE SPECTRUM OF GADOLINIUM IN LAAlO3
PHYS REV V130 N1 PP144/150 1 APR 63
RY LOW W
ZUSMAN A
DDC NUMBER 435656
INSTRUMENT AF/EDAR /0064/63
PROJ/TASK 9763 03

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PHYS REV V130 N2 PP820/827 15 APR 63
BY TGI K
DDC NUMBER 436378
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ANALYTICITY AND UNITARITY OF GENERAL TRANSITION AMPLITUDES
NUOVO CIMENTO 51 V26 PP168/176 OCT 62
BY DRAGT A J
KARPLUS R
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PHYS REV V130 N5 PP2132/2134 1 JUN 63
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BY APPA RAO M V K
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BY ZWARTZIGER D
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BY WEINBERG S
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YALE U NEW HAVEN CONN
HIGH ENERGY DIFFRACTION SCATTERING
PHYS REV V132 N3 PP1217/1225 NOV 63
BY DURAND III L
GREIDER K R
DDC NUMBER 436167
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PHYS LETTERS V7 N3 PP190/200 15 NOV 63
BY ALY H M
LURIE D
ROSENDRUFF S
DDC NUMBER 436169
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PHYS LETTERS V7 N1 PP42/43 15 OCT 63
BY DPAER S
DDC NUMBER 436170
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LITHIUM ACETATE
NUOVO CIMENTO 51 V26 PP345/357 NOV 62
BY DAVIS D M
LEVI SETTI R
RAYMOND M
TOPAKIAN G
DDC NUMBER 436375
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ROCHESTER U N Y
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PHYS REV LETTERS V10 N8 PP364/368 15 APR 63
BY DUTHIE J G
HAFNER F M
KAPLAN M F
FARITO G G
DDC NUMBER 436376
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BY ALY H M
APPARAO M V K
DDC NUMBER 436420
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IN NUCLEAR EMULSIONS
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BY APPARAO M V K
LAVAKARF D J
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PRINCETON U N J
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SCATTERING AMPLITUDE
PHYS REV V132 N6 PP2764/2787 15 DEC 63
BY GOLDBERGER M L
LEWIS H W
WATSON K W
DDC NUMBER 436316
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BY EDWARDS S
DDC NUMBER 436371
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BY WARM K L
TFMHER G M
RIEDEN H R
DDC NUMBER 436160
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COHERENT AND INCOHERENT STATES OF THE RADIATION FIELD
PHYS REV V131 N6 PP2766/2788 SEP 63
BY KLAUBER R J
DDC NUMBER 436418
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LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND
CANONICAL VARIABLES FOR THE INTERACTING GRAVITATIONAL AND
DIRAC FIELDS
J MATH PHYS V4 N11 PP1433/1437 NOV 63
BY RIBBLE T W R
DDC NUMBER 433827
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CAMBRIDGE U ENGLAND
HIGH-ENERGY BEHAVIOR IN PERTURBATION THEORY II
J MATH PHYS V4 N11 PP1396/1400 NOV 63
BY POLKINGHORNE J C
DDC NUMBER 436377
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CAMBRIDGE U ENGLAND
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PHYS LETTERS V7 N3 PP217/218 NOV 63
BY POLKINGHORNE J C
INSTRUMENT AF/AFOSR /0079/63
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IS CONSERVED
ANN PHYS V25 N2 PP249/268 NOV 63
BY ROYLING J R
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PRINCETON U N J
KHURI/TREIMAN REPRESENTATION AND PERTURBATION THEORY
PHYS REV V132 N6 PP2703/2711 DEC 63
BY ROSENZAN J R
KACSER C
DDC NUMBER 436162
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CAMBRIDGE U ENGLAND
HIGH ENERGY SCATTERING FROM FIELD THEORY
PHYS LETTERS V7 N3 PP266/268 15 NOV 63
BY TAYLOR J G
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HIGH ENERGY BEHAVIOR IN PERTURBATION THEORY
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BY POLKINGHORNE J C
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OF DOUBLE-FOCUSING MASS SPECTROMETERS
CAN J PHYS V42 PP109/112 JAN 64
RY CAMREY L A
OMROD J H
BARRER R C
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PHYS REV V132 N2 PP823/830 OCT 63
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PARITY OF BOSONS
PHYS REV LETTERS V11 N5 PP220/224 SEP 63
RY BERMAN S M
DRELL S D
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DETERMINING ITS MAGNETIC MOMENT
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TKAT Y S
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RY MEHTA M K
HUNT W E
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MERIWETHER J R
CHOPPIN G R
FOX J D
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RY CHOPPIN G R
MERIWETHER J R
FOX J D
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PRINCETON U N J
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PHYS REV V132 N1 PP184/187 1 OCT 63
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TREIMAN S R
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MOMENTUM
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RY BARUT A O
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STARK L
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RY MELLON JR D
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PARTICLES WITH ARBITRARY SPINS
ANN PHYS V26 N1 PP54/71 JAN 64
RY CALOGERO F
CHARAP J M
DDC NUMBER 434310
INSTRUMENT AF/AFOSR /0390/62
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BETA SPECTROSCOPY WITH SOLID STATE DETECTORS
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BY PERRY J W
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BY KESSEY K O
GROSS R A
DDC NUMBER 436083
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BY GOVINDARAJULU Z
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BY HALL R T
PIMENTEL G C
DDC NUMBER 434308
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BY GILLESPIE R J
ROTHENBURY R A
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BY ARANOW R H
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BY NELSON A D
MCDONALD R L
DDC NUMBER 434306
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BY WENDLANDT W W
SMITH J P
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BY WENDLANDT W W
ALI S T
STENBRIDGE C H
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BY DAVIES B
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AFOSR 64/0583
MASSACHUSETTS INST OF TECH CAMBRIDGE
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CASE INST OF TECH CLEVELAND OHIO

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CHU ASSOC LITTLETON MASS

CINCINNATI U OHIO

CLEVITE CORP PALO ALTO CALIF

COLORADO STATE U RESEARCH FOUNDATION FORT COLLINS

COLORADO U BOULDER

COLUMBIA U NEW YORK N Y

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COMPUTER ASSOC INC BARTLETT CT

CONNECTICUT U STORRS

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CORNELL AERONAUTICAL LAB INC BUFFALO N Y

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FLORIDA STATE U TALLAHASSEE

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GAIKSTAD HOSPITAL HOSPITAL VINDERN OSLO NORWAY

GENERAL DYNAMICS CORP AERONAUTICS SAN DIEGO CALIF

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PHYSICAL STUDIES INC CENTERVILLE OHIO

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PICKARD AND BURNS INC WALTHAM MASS

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PURDUE U LAFAYETTE IND

APCRL 64/0170

QUEENS COLL FLUSHING N Y

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RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER
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WESTERN ELECTRIC U LONDON CANADA
 WESTERN ELECTRIC U CLEVELAND OHIO
 WESTERN ELECTRIC CORP BALTIMORE MD
 WESTERN ELECTRIC CORP PITTSBURGH PA
 WESTERN ELECTRIC CORP WASHINGTON D C

WISCONSIN U MADISON

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WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS

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YENHUA U NEW YORK N Y

ZATON CO CAMBRIDGE MASS

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